KNOWLEDGE BASE ARTICLE

Display Entra ID Custom Attributes in Employee Directory

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Extension attributes in **on-premise Active Directory** (AD) let organizations extend directory objects with new attributes tailored to their needs. These custom attributes can be synchronized with **Microsoft Entra ID** for seamless integration across platforms.

Once synchronized, you can display them on SharePoint sites and in **Microsoft Teams** using the Employee Directory web part.

This article is a complete guide to setting up the Employee Directory web part to display custom attributes of Entra ID user objects.

Attribute Name

Custom **extension attributes** in Entra ID are not named the same way as in on-premises AD. For example, an attribute such as *fax* in on-premises AD follows a different naming convention in Entra ID. Custom attribute names in Entra ID have this format:

```
extension_{uniqueid}_attributeName
```

To use these custom attributes, you first need to retrieve their names from Entra ID.

Prerequisites

Before you begin, make sure the PowerShell modules needed to work with Microsoft 365 are installed. Open PowerShell and run the following commands to install the `MSOnline` and `AzureAD` modules:

```
Install-Module -Name MSOnline
```

```
Install-Module -Name AzureAD
```

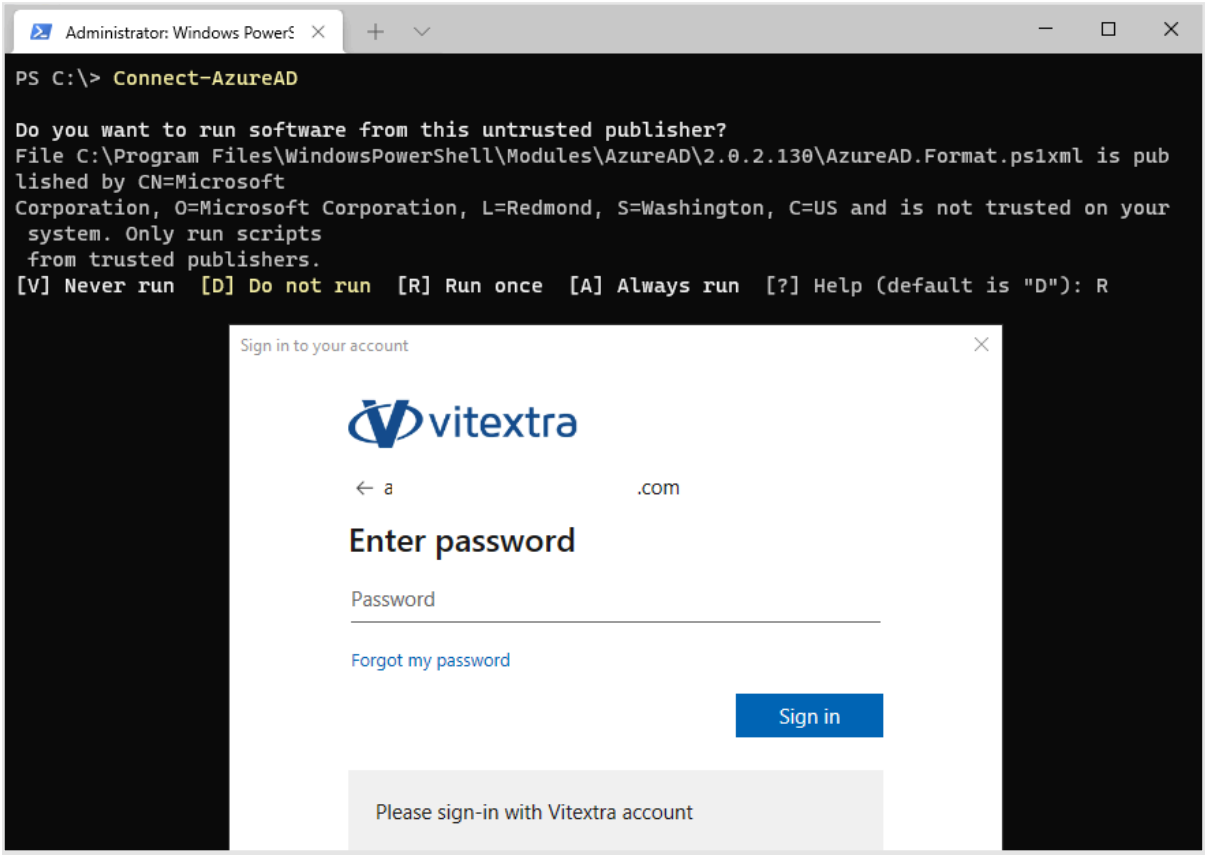
Connect to Your Environment

To connect to your Microsoft 365 environment, run the *Connect-AzureAD* cmdlet:

```
Connect-AzureAD
```

You'll be prompted to sign in with your corporate account. This connection is required

to access and manage your Entra ID attributes.



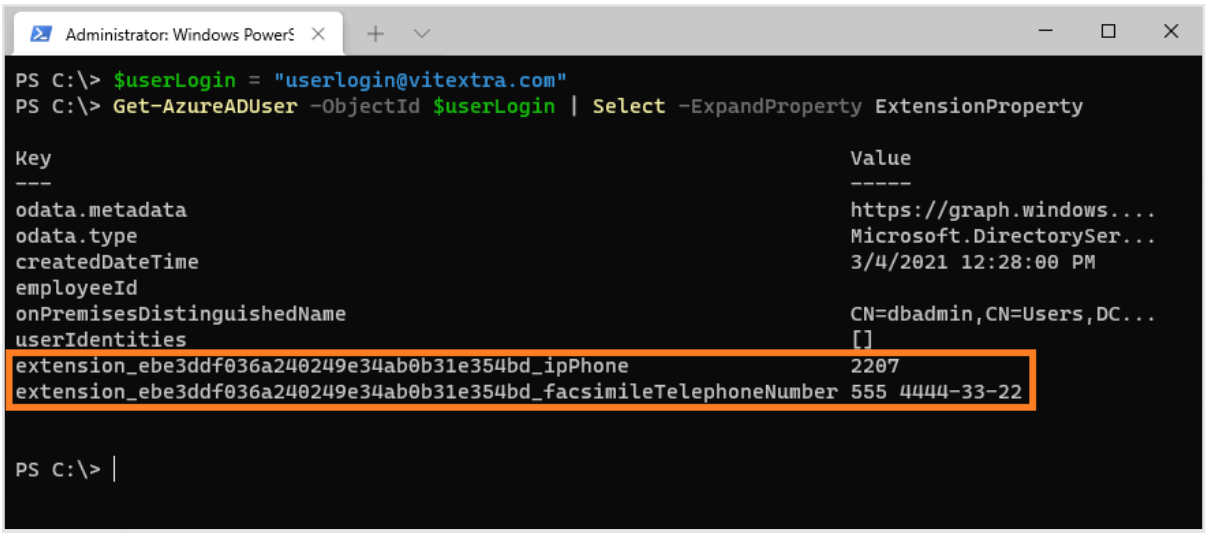
Connect to Microsoft 365 environment with a corporate account

Getting Custom Attributes

To retrieve the custom attributes, replace `dbadmin@vitextra.onmicrosoft.com` with the login of a user in your Entra ID that has the attributes you need, then run the following script:

```
$userLogin = "dbadmin@vitextra.onmicrosoft.com"
Get-AzureADUser -ObjectId $userLogin | Select -
ExpandProperty ExtensionProperty
```

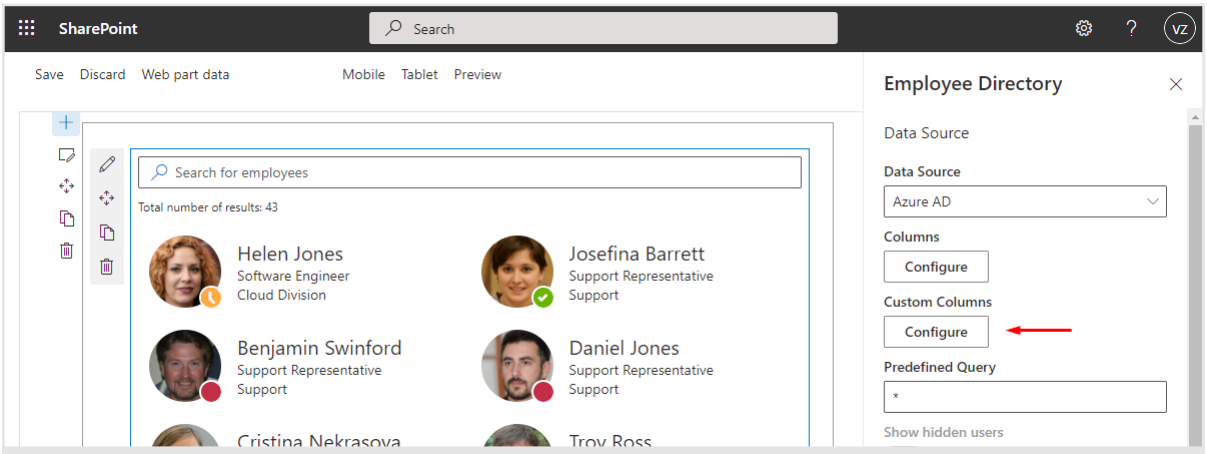
This command lists the extension properties you can use as custom attributes in the Employee Directory web part.



Extension Property of user object in Azure AD

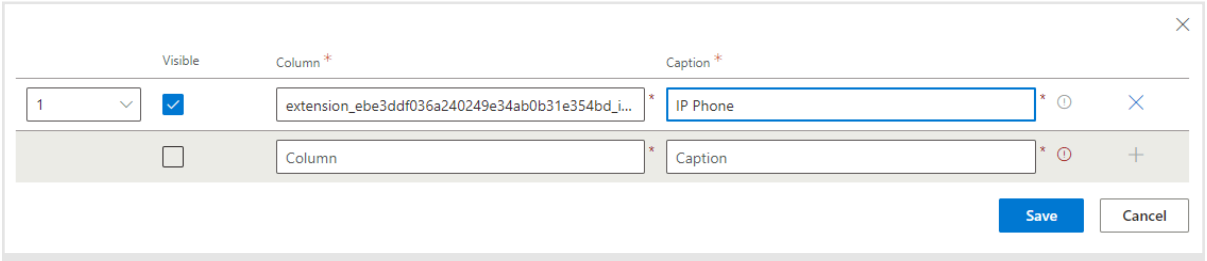
Web Part Properties

To configure the Employee Directory web part, go to the page where it's placed and enter edit mode. Open the web part settings and select **Configure** under the **Custom Columns** heading:



Web Part Settings

Add the custom attributes to the list and click **Save** to apply your changes.

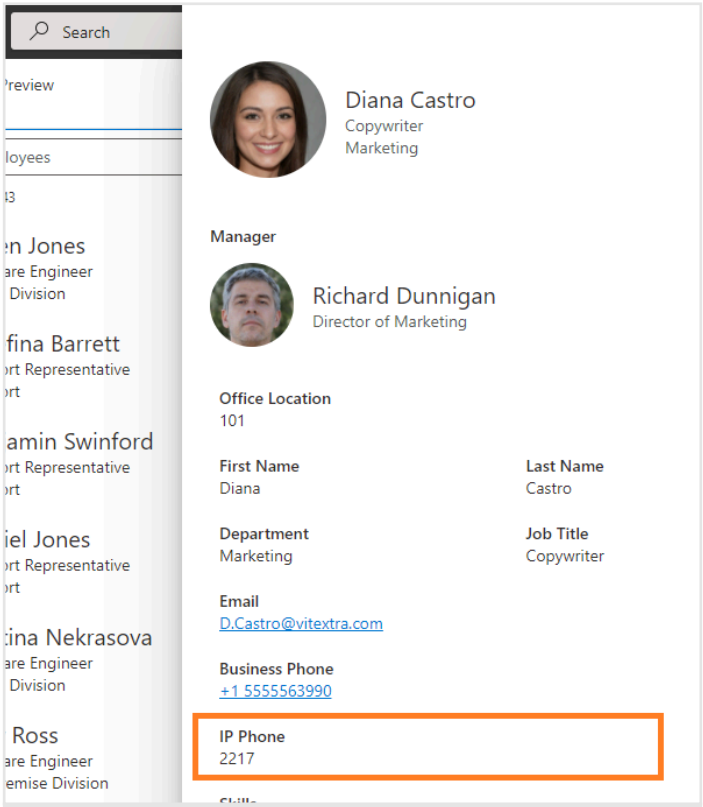


Custom Columns Settings

Note

Both Employee Directory and Employee Directory (Entra ID) have similar settings for custom user properties.

Once the custom attributes are defined and marked as visible, they appear in the employee details pane:



Employee Details Pane

Finally, publish the page to save your changes and make the custom attributes available to users.

Summary

Extending directory objects with custom attributes in Entra ID expands what the Employee Directory web part can show in SharePoint and Microsoft Teams.

By following the steps in this article, you can retrieve and display these attributes, improving the experience and making more information accessible across your organization.

Terms

Active Directory
Active Directory (AD) is a directory service developed by Microsoft for Windows domain networks. It provides a centralized platform for managing and storing information about network resources, including users, computers, and services. Active Directory facilitates authentication and authorization, allowing administrators to control access to resources and enforce security policies across the network.

Extension Attributes
Extension attributes in Microsoft Entra ID are additional properties that can be added to the default set of attributes provided by the service. They allow organizations to extend the Microsoft Entra ID schema with custom data fields that are specific to their business needs.

Microsoft Entra ID
Microsoft Entra ID (formerly Azure Active Directory) is a cloud-based identity and access management service offered by Microsoft. It allows organizations to efficiently manage and secure their users' identities and access to a variety of resources, both internal and external. These resources include Microsoft 365, the Azure platform, and thousands of other software-as-a-service (SaaS) applications.

Microsoft Teams
Microsoft Teams is a chat-based collaboration platform for business communications with features for online meetings, live events, and document sharing.